BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: PACKAGE2 IMPROVEMENTS TO ROADS AND DRAINS PROVIDING AMENITIES CONSTRUCTION OF RO WATER PLANT BANGALORE ONE CENTER IN WARD NO.7 & 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GO NO UDD 217 SFC 2016 DATED 28.5.2016 WORKS SL NO FOR WARD NO. 7 12 TO 23 & WARD NO. 8 24 TO 32.

CONSULTANT:

BVH CONSULTING ENGINEERS

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Bruhat Bengaluru Mahanagara Palike

BYTARAYANAPURA DIVISION

TOTAL ABSTRACT

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Job Code :- 007-16-000043 26618

Name of Agency :-Benaka Developers and Projects Pvt. Ltd

Bill No :- 1st and Part Bill

Measurements recorded on

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
1	**KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			285.98			
	L&T Colony Near Amrutha Clinic in ward No 07			466.03			
	Chikka Muniyappa house at Amruthahalli in ward No 07			294.60			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			741.30			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			231.66			
	Present Qty			2019.57			
	Previous Bill Qty			0.00			
	Total			**2019.57**			
	BOQ qty			**10342.03**			
	Qty for payment	**cum**		**2019.57**	**196.00**	**395835.72**	
2	**Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			396.20			
	L&T Colony Near Amrutha Clinic in ward No 07			967.40			
	Chikka Muniyappa house at Amruthahalli in ward No 07			171.00			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			633.20			

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			870.01			
	Present Qty			3037.81			
	Previous Bill Qty			0.00			
	Total			**3037.81**			
	BOQ qty			14231.41			
	Qty for payment	Sqm		**3037.81**	**85.00**	**258213.85**	
3	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			23.91			
	Present Qty			23.91			
	Previous Bill Qty			0.00			
	Total			**0.00**			
	BOQ qty			1036.27			
	Qty for payment	Sqm		**23.91**	**867.00**	**20729.97**	
4	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			75.40			
	L&T Colony Near Amrutha Clinic in ward No 07			67.55			
	Chikka Muniyappa house at Amruthahalli in ward No 07			61.10			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			52.00			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			0.00			
	Present Qty			256.05			
	Previous Bill Qty			0.00			
	Total			**256.05**			
	BOQ qty			4082.24			
	Qty for payment	Cum		**256.05**	**699.00**	**178978.95**	
7	**KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)**						
	sub name of work						

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	Sneha nagara, in ward No 07			58.56			
	L&T Colony Near Amrutha Clinic in ward No 07			0.00			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			6.29			
	Present Qty			64.85			
	Previous Bill Qty			0.00			
	Total			**64.85**			
	BOQ qty			412.12			
	Qty for payment	cum		**64.85**	**5613.00**	**364025.50**	
8	**KSRB 5-14: providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800 kg/m3 of size solid block 400x150x200mm having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185(Part 1):2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No. 5.4 (P.No.24, I.No.5.26.2 of PW,**						
	sub name of work						
	Sneha nagara, in ward No 07			72.00			
	L&T Colony Near Amrutha Clinic in ward No 07			0.00			
	Present Qty			72.00			
	Previous Bill Qty			0.00			
	Total			**72.00**			
	BOQ qty			348.00			
	Qty for payment	Sqm		**72.00**	**1009.00**	**72648.00**	
10	**KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2015-16)**						
	sub name of work						
	Sneha nagara, in ward No 07			6.16			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			37.75			
	Present Qty			43.90			
	Previous Bill Qty			0.00			
	Total			**43.90**			
	BOQ qty			17.28			
	Qty for payment	**cum**		**43.90**	**4657.00**	**204451.61**	

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
11	**KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.112, I.No.15.1 of PW, P&IWTD S.R 2015-16**						
	sub name of work						
	Sneha nagara, in ward No 07			10.26			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			62.91			
	Present Qty			73.17			
	Previous Bill Qty			0.00			
	Total			**73.17**			
	BOQ qty			347.40			
	Qty for payment	**Sqm**		**73.17**	**108.00**	**7902.36**	
12	**KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.**						
	sub name of work						
	Sneha nagara, in ward No 07			7.88			
	L&T Colony Near Amrutha Clinic in ward No 07			0.00			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			10.49			
	Present Qty			18.37			
	Previous Bill Qty			0.00			
	Total			**18.37**			
	BOQ qty			49.86			
	Qty for payment	**Cum**		**18.37**	**6052.00**	**111169.19**	
13	**Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)**						
	sub name of work						
	Sneha nagara, in ward No 07			217.62			
	Present Qty			217.62			
	Previous Bill Qty			0.00			
	Total			**217.62**			
	BOQ qty			355.20			
	Qty for payment	**Sqm**		**217.62**	**1907.00**	**415001.34**	

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
28	**Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17**						
	sub name of work						
	Sneha nagara, in ward No 07			308.89			
	Present Qty			308.89			
	Previous Bill Qty			0.00			
	Total			**308.89**			
	BOQ qty			400.00			
	Qty for payment	**No.**		**308.89**	**348.00**	**107493.33**	
29	**KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.182, I.No. 24.1 of PW,P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			48.65			
	Present Qty			48.65			
	Previous Bill Qty			0.00			
	Total			**48.65**			
	BOQ qty			63.00			
	Qty to be paid now	**Sqm**		**48.65**	**67.00**	**3259.55**	
14	**Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)**						
	sub name of work						
	Sneha nagara, in ward No 07			9.72			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			61.56			
	Present Qty			71.28			
	Previous Bill Qty			0.00			
	Total			**71.28**			
	BOQ qty			30.42			
	Qty to be paid now	Sqm		**71.28**	**5580.00**	**397742.40**	
15	**KSRRB M300-52.2. Scarifying Existing Bituminous surface to a depth of 50mm by Mechanical Means. Scarifying the existing bituminous road surface to a depth of 50mm and disposal of scarified material and complete as per specifications. MORTH Specification No. 305.4.3 (P.No.148, I.No.19.59 of PW,P&IWTD S.R 2016-17**						
	sub name of work						

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	L&T Colony Near Amrutha Clinic in ward No 07			1271.75			
	Present Qty			1271.75			
	Previous Bill Qty			0.00			
	Total			**1271.75**			
	BOQ qty			1897.50			
	Qty to be paid now	**Sqm**		**1271.75**	**8.00**	**10174.00**	
16	**KSRRB M300- Scarifying Existing Granular Surface to a Depth of 50mm by Manual Means. KSRRB M300-52.1. Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material and complete as per specifications. MORTH Specification No. 305.4.3 (P.No.148, I.No.19.58 of PW,P&IWTD S.R 2016-17)**						
	sub name of work						
	Adjacent to St. Johns school at Amruthahalli in ward No 07			3292.10			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			2410.60			
	Present Qty			5702.70			
	Previous Bill Qty			0.00			
	Total			**5702.70**			
	BOQ qty			**11721.00**			
	Qty to be paid now	**Sqm**		**5702.70**	**48.00**	**273729.60**	
17	**KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301 (P.No.148, I.No.19.14 of PW,P&IWTD S.R 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			341.28			
	L&T Colony Near Amrutha Clinic in ward No 07			71.81			
	Chikka Muniyappa house at Amruthahalli in ward No 07			580.35			
	Present Qty			993.44			
	Previous Bill Qty			0.00			
	Total			**993.44**			
	BOQ qty			3935.48			
	Qty to be paid now	**Cum**		**993.44**	**156.00**	**154976.33**	

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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
20	**KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			190.73			
	L&T Colony Near Amrutha Clinic in ward No 07			379.65			
	Chikka Muniyappa house at Amruthahalli in ward No 07			346.73			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			821.90			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			559.06			
	Present Qty			2298.07			
	Previous Bill Qty			**0.00**			
	Total			**2298.07**			
	BOQ qty			6314.16			
	Qty to be paid now	**Cum**		**2298.07**	**1855.00**	**4262910.58**	
21	**KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			936.54			
	L&T Colony Near Amrutha Clinic in ward No 07			1518.61			
	Chikka Muniyappa house at Amruthahalli in ward No 07			1386.90			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			3292.10			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			2410.60			
	Present Qty			9544.75			

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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	Previous Bill Qty			**0.00**			
	Total			**9544.75**			
	BOQ qty			26300.82			
	Qty to be paid now	**Sqm**		**9544.75**	**31.00**	**295887.25**	
22	**KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17**						
	sub name of work						
	L&T Colony Near Amrutha Clinic in ward No 07			1295.10			
	Present Qty			1295.10			
	Previous Bill Qty			**0.00**			
	Total			**1295.10**			
	BOQ qty			49142.18			
	Qty to be paid now	**Sqm**		**1295.10**	**3.00**	**3885.30**	
23	**KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			3352.42			
	L&T Colony Near Amrutha Clinic in ward No 07			4624.60			
	Chikka Muniyappa house at Amruthahalli in ward No 07			1386.90			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			3292.10			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			3949.30			
	Present Qty			16605.32			
	Previous Bill Qty			**0.00**			
	Total			**16605.32**			
	BOQ qty			86163.80			
	Qty to be paid now	**Sqm**		**16605.32**	**13.00**	**215869.16**	

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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
24	**KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.162 I.No. 21.17.6 of PW,P&IWTD S.R 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			27.21			
	L&T Colony Near Amrutha Clinic in ward No 07			76.97			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			76.94			
	Present Qty			181.11			
	Previous Bill Qty			**0.00**			
	Total			**181.11**			
	BOQ qty			429.04			
	Qty to be paid now	**Cum**		**181.11**	**7384.00**	**1337297.78**	
25	**KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			72.52			
	L&T Colony Near Amrutha Clinic in ward No 07			119.61			
	Chikka Muniyappa house at Amruthahalli in ward No 07			55.48			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			147.05			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			96.42			
	Present Qty			491.08			
	Previous Bill Qty			0.00			

491.08

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	Total			491.08			
	BOQ qty			3100.00			
	Qty to be paid now	**Cum**		**491.08**	**8438.00**	**4143712.79**	
30	**KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)**						
	sub name of work						
	Sneha nagara, in ward No 07			82.10			
	L&T Colony Near Amrutha Clinic in ward No 07			134.30			
	Chikka Muniyappa house at Amruthahalli in ward No 07			66.00			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			163.00			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			98.00			
	Present Qty			543.40			
	Previous Bill Qty			0.00			
	Total			**543.40**			
	BOQ qty			3014.60			
	Qty to be paid now	**Sqm**		**543.40**	**570.00**	**309738.00**	
26	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the**						
	sub name of work						
	Sneha nagara, in ward No 07			57.30			
	Present Qty			57.30			
	Previous Bill Qty			0.00			
	Total			**57.30**			
	BOQ qty			554.47			
	Qty to be paid now	**Cum**		**57.30**	**6525.00**	**373862.93**	
27	**Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)**						

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	Sneha nagara, in ward No 07			381.98			
	Present Qty			381.98			
	Previous Bill Qty			0.00			
	Total			**381.98**			
	BOQ qty			4443.00			
	Qty to be paid now	**Sqm**		**381.98**	**100.00**	**38198.00**	
	Add cost of Waste Plastic @ 8% of Bitumen Weight						
	sub name of work						
	Sneha nagara, in ward No 07			817.98			
	L&T Colony Near Amrutha Clinic in ward No 07			1349.22			
	Chikka Muniyappa house at Amruthahalli in ward No 07			625.77			
	Adjacent to St. Johns school at Amruthahalli in ward No 07			1658.72			
	Shriya Residency Near Old Police Station Amruthahalli in ward No 07			1087.66			
	Present Qty			5539.36			
	Previous Bill Qty			0.00			
	Total			**5539.36**			
	BOQ qty			34968.00			
	Qty to be paid now	**Kg/cum**		**5539.36**	**27.00**	**149562.59**	
	GRAND TOTAL					**14107256.08**	

AE(HT)

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